Funding Requests from Agronomic Services and Research Stations

Presentation to the Joint Legislative Committee on Capital Improvements

December 13, 2018

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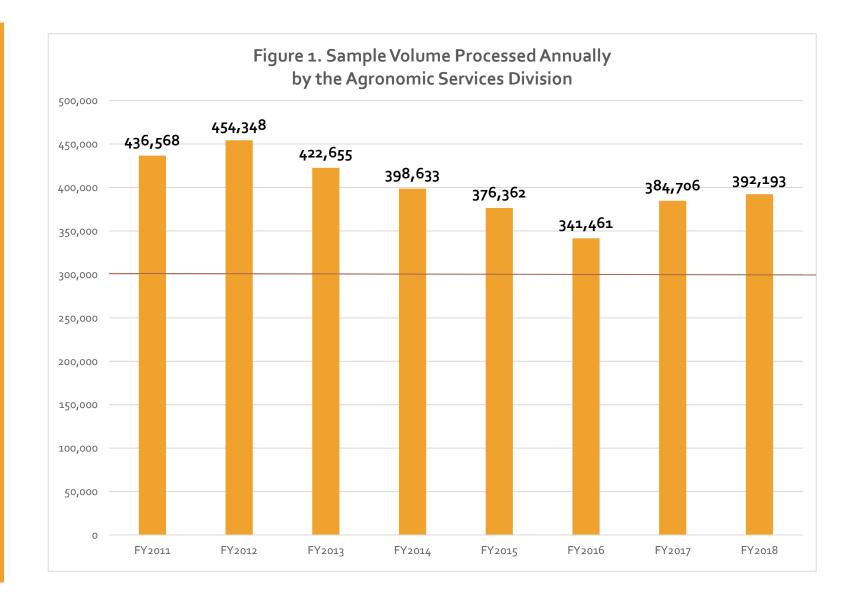
Agronomic Services



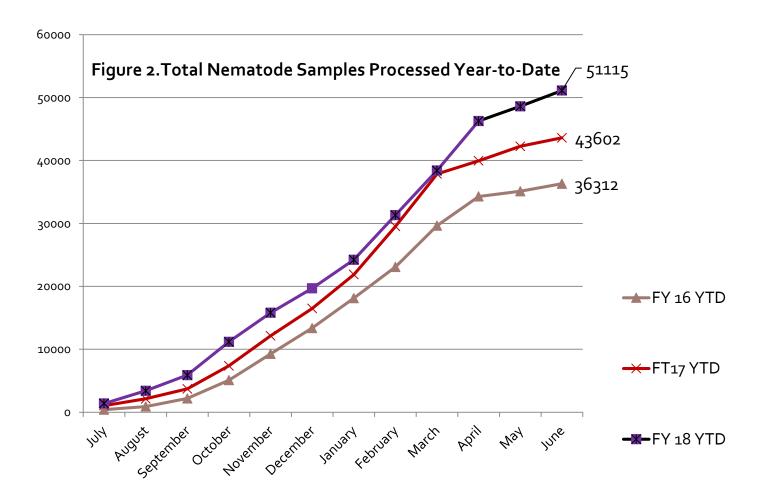
Donald W. Eaddy Building

- **Mission** -To provide all North Carolina residents with diagnostic and advisory services that increase agricultural productivity, promote responsible land management and safeguard environmental quality.
- Laboratory Services Provided
 - Soil testing for lime and fertilizer recommendations
 - Nematode assays to determine best control options for plant-parasitic round worms
 - Pinewood nematode assays to support the export of lumber products
 - Molecular diagnosis of nematode species to support regulatory programs
 - Analysis of plant tissue, solution and soilless media samples for nutrient content and management recommendations
 - Analysis of waste materials (hog lagoon, poultry litter, industrial wastes, etc.) to determine agronomic application rates and compliance with waste management regulations.

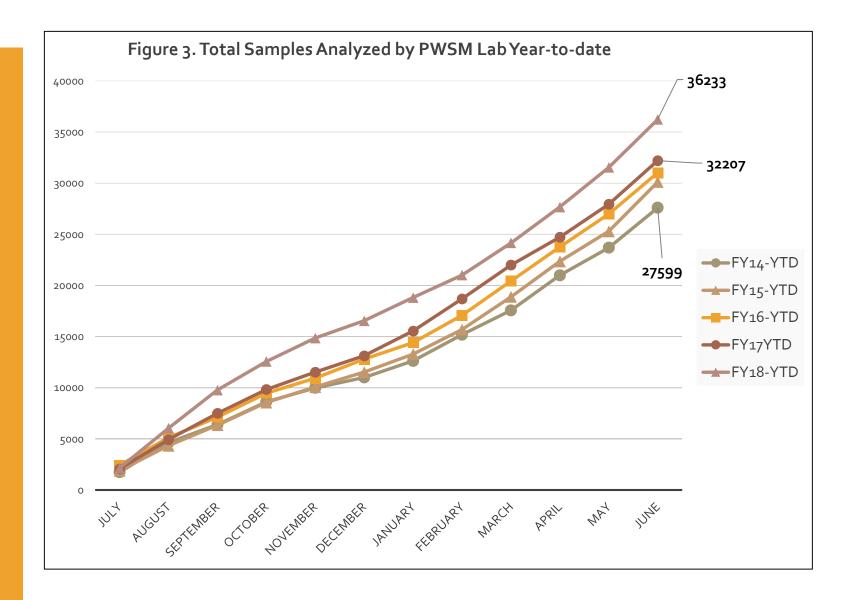
Justification for Expansion



Sample volume increases in the Nematode Assay Lab



Sample volume increases in the Plant/Waste/ Solution/ Media (PWSM) Lab



Current Challenges

- 1. Limited storage space for samples awaiting analysis
- 2. Thousands of samples stored in hallways, creating safety concerns
- 3. Crowded lab areas reduce productivity, efficiency and sample turnaround times
- 4. No available lab space for new, more efficient equipment
- 5. Molecular diagnostic procedures being performed in unheated closet off the loading dock

12/13/2018

Samples Waiting Analysis



South Hallway



North Hallway

Samples Waiting Analysis



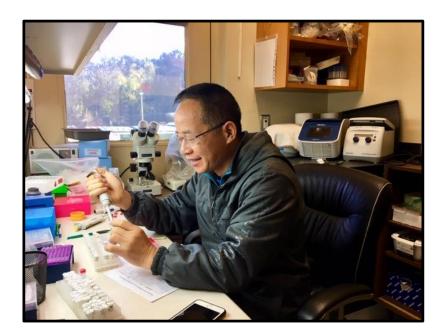
Samples in Bulk Storage Room



Samples in Nematode Receiving Room

12/13/2018

Inadequate Laboratory Space



Closet used for nematode molecular diagnostic procedures





Sample grinding (L) and analytical (R) areas for plant and waste samples

Proposed Agronomic Services Project – Total Estimated Cost, \$853,00

- Construction of new detached, climate-controlled building (60 ft X 100 ft) for sample receiving and storage
- Relocation all receiving activities to this new building
- Renovation of current bulk storage room to expand the PWSM and Nematode Assay Labs
- Construction of a "clean room" for molecular diagnostic procedures



Research Stations Division



Swine Research Facility Replacement

Research Stations Division



Our Mission

 To manage crop and livestock facilities that serve as a platform for agriculture research to make farming more efficient, productive and profitable, while maintaining a sound environment and providing consumers with safe and affordable products.



12/13/2018 **12**

Swine Industry in North Carolina



- Employees 46,000 people
- Over \$2.3 Billion in cash receipts
- NC Ranks 2nd in the nation in hog production



NCDA Swine Research facilities



- Tidewater Research Station in Plymouth, NC is home to one of the largest swine research facilities in the nation
- Farrow to finish research program
- Research topics include genetics, feed conversion, animal health, animal behavior and micro nutrient supplementation



NCDA Swine Research facilities



- Discoveries made at the facility have, and will continue to improve production practices for the swine industry in North Carolina
- Provides critical training platform for graduate students



NCDA Swine Research facilities



- Current facility dates back to the 1960's
- Due to age, heavy use and changes in production technology, the facility is in need of replacement





Proposed Swine Research Facility Replacement



Construct new farrow to finish research facility at Tidewater Research Station

- Project will include:
 - Animal houses, working facilities, office, waste management
 - Office and lab space
 - Latest environmental, feed and water controls,
 - Feed storage and processing
 - Demolition and cleanup of old facility

Estimated Cost: \$3 Million

Questions?